SPYWOLF

Security Audit Report

Completed on

May 17, 2023

OVERVIEW

This audit has been prepared for **PANDA YAYA** to review the main aspects of the project to help investors make make an informative decision during their research process.

You will find a a summarized review of the following key points:

- ✔ Contract's source code
- ✔ Owners' wallets
- ✔ Tokenomics
- ✔ Team transparency and goals
- ✔ Website's age, code, security and UX
- ✔ Whitepaper and roadmap
- ✔ Social media & online presence

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

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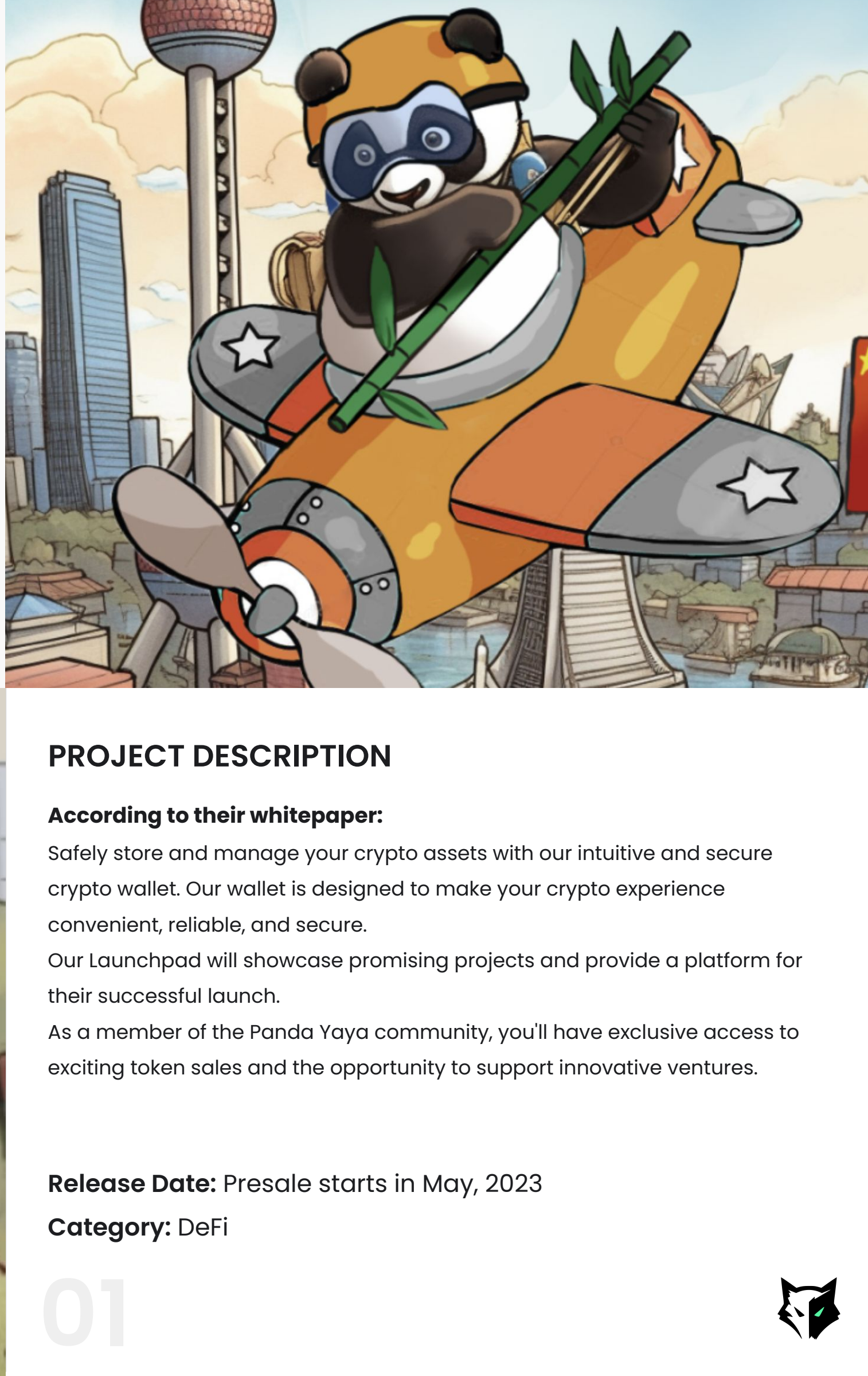
PANDA YAYA



PROJECT DESCRIPTION

According to their whitepaper:

Safely store and manage your crypto assets with our intuitive and secure crypto wallet. Our wallet is designed to make your crypto experience convenient, reliable, and secure.

Our Launchpad will showcase promising projects and provide a platform for their successful launch.

As a member of the Panda Yaya community, you'll have exclusive access to exciting token sales and the opportunity to support innovative ventures.

Release Date: Presale starts in May, 2023

Category: DeFi

CONTRACT INFO

Token Name	Symbol
Panda YAYA	PYY

Contract Address
0xc0293113Ca0D371A6197BC077b1AAb0A54303cD4

Network	Language
Binance Smart Chain	Solidity

Deployment Date	Verified?
May 17, 2023	Yes

Total Supply	Status
420,000,000,000,000	Not launched

TAXES

Buy Tax	Sell Tax
9%	9%

Our Contract Review Process

The contract review process pays special attention to the following:

- Testing the smart contracts against both common and uncommon vulnerabilities
- Assessing the codebase to ensure compliance with current best practices and industry standards.
- Ensuring contract logic meets the specifications and intentions of the client.
- Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat

TOKEN TRANSFERS STATS

Transfer Count	3
Uniq Senders	3
Uniq Receivers	3
Total Amount	10500000000000000.1 PYY
Median Transfer Amount	4200000000000000 PYY
Average Transfer Amount	3500000000000000 PYY
First transfer date	2023-05-17
Last transfer date	2023-05-17
Days token transferred	1

SMART CONTRACT STATS

Calls Count	7
External calls	7
Internal calls	0
Transactions count	7
Uniq Callers	2
Days contract called	1
Last transaction time	2023-05-17 05:57:53 UTC
Created	2023-05-17 05:25:10 UTC
Create TX	0x997d50ac5ce252c1cffb9e2144c7f468c47c658ad4fd19b6394eac530f98fc0b
Creator	0x0305cfd5d970972c7a89acb51aebc2f6303b5480

VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed

THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

FOUND THREATS

⚠ High Risk

If fees is set to 0 and contract attempt to swap its holdings, **contract will halt and selling will fail**. Division by zero is impossible.
If reward, rewardCharity and/or rewardDev is higher than fee variable, overflow may occur causing the transaction to revert, causing the contract to halt on sell from regular use (not fee excluded).

```
function setReward(uint256 total_,uint256 rewardMtk_,uint256 rewardDev_,
uint256 rewardCharity_) external onlyOwner {
    require(total_ <= 20, "Reward fee must less than 20%");
    fee = total_;
    reward = rewardMtk_;
    rewardCharity = rewardCharity_;
    rewardDev = rewardDev_;
}

function _transfer(address from, address to, uint256 amount ) internal override {
.....................
uint256 feeInContract = balanceOf(address(this));
bool canSwap = feeInContract >= transferFeeAt;
if ( canSwap && from != swapPair && !swapping &&
    !isExcludedFromFee[from] && !isExcludedFromFee[to]) {
    swapping = true;
    _swapAndTransferFee(feeInContract);
    swapping = false;
}
.....................
}

function _swapAndTransferFee(uint256 feeAmount) private {
uint256 rewardAmount = feeAmount.mul(reward).div(fee);
uint256 rewardAmountDev = feeAmount.mul(rewardDev).div(fee);
uint256 rewardAmountCharity = feeAmount.mul(rewardCharity).div(fee);

uint256 rewardHolder = feeAmount
    .sub(rewardAmount)
    .sub(rewardAmountDev)
    .sub(rewardAmountCharity);
_swapForETH(feeAmount.sub(rewardHolder));
.....................
}
```

- Recommendation:
  - Consider another formula for fee tokens distribution.

FOUND THREATS

⚠ High Risk

When reward, rewardCharity and/or rewardDev are out of bonds in the context of the current transaction, transaction will revert **causing the contract to halt on sell** for regular user (not excluded from fees).

```
function _transfer(address from, address to, uint256 amount ) internal override {
.....................
uint256 feeInContract = balanceOf(address(this));
bool canSwap = feeInContract >= transferFeeAt;
if ( canSwap && from != swapPair && !swapping &&
    !isExcludedFromFee[from] && !isExcludedFromFee[to]) {
    swapping = true;
    _swapAndTransferFee(feeInContract);
    swapping = false;
}
.....................
}

function _swapAndTransferFee(uint256 feeAmount) private {
.....................
uint256 amount = address(this).balance;
uint256 marketingAmount = amount.mul(reward).div(5);
payable(marketing).sendValue(marketingAmount);

uint256 devAmount = amount.mul(rewardDev).div(5);
payable(dev).sendValue(devAmount);

uint256 charityAmount = amount.sub(devAmount).sub(marketingAmount);
payable(charity).sendValue(charityAmount);
.....................
}

function sendValue(address payable recipient, uint256 amount) internal {
    require(address(this).balance >= amount,
        "Address: insufficient balance");
    (bool success, ) = recipient.call{value: amount}("");
    require(success,
        "Address: unable to send value, recipient may have reverted");
}
```

- Recommendation:
  - Consider another formula for fee tokens distribution.

FOUND THREATS

⚠ High Risk

Owner can enable/disable trading.
Owner can whitelist address.
Whitelisted addresses are excluded from trading restrictions.

```
function enableTrading(bool _trading) external onlyOwner {
    tradingActive = _trading;
}

function isNotLockBuySell(address _user) public view returns (bool){
    return whitelistBuySell[_user] || tradingActive;
}

function setWhitelistBuySell(address _user, bool _wl) public onlyOwner {
    whitelistBuySell[_user] = _wl;
}

function _transfer(address from, address to, uint256 amount) internal override {
.....................
require(isNotLockBuySell(from), "Panda YAYA: Lock");
.....................
}
```

FOUND THREATS

⚠ Medium Risk

Owner can set buy/sell fees up to 20% and fee distribution ratios without any limitation.
Combined buy+sell = 40%.
When fees are above 0, there will be certain amount of tokens that will be deducted from every transaction that users make.

```
function setReward(uint256 total_,uint256 rewardMtk_,uint256 rewardDev_,
uint256 rewardCharity_) external onlyOwner {
    require(total_ <= 20, "Reward fee must less than 20%");
    fee = total_;
    reward = rewardMtk_;
    rewardCharity = rewardCharity_;
    rewardDev = rewardDev_;
}

function _transfer(address from, address to, uint256 amount ) internal override {
.....................
if (takeFee) {
    uint256 feeAmount = 0;
    if (from == swapPair || to == swapPair) {
        feeAmount = amount.mul(fee).div(100);
    }

    if (feeAmount > 0) {
        super._transfer(from, address(this), feeAmount);
        amount = amount.sub(feeAmount);
    }
}

super._transfer(from, to, amount);
.....................
}
```

- Recommendation:
  - Considered as good tax deduction practice is buy and sell fees combined not to exceed 25%.

Informational

Owner can exclude address from dividends.
Owner can exclude address from fees.

```
function excludeFromDividends(address account) external onlyOwner {
    dividendTracker.excludeFromDividends(account);
}

function excludeFromFee(address account, bool isExcluded) public onlyOwner {
    isExcludedFromFee[account] = isExcluded;
}
```

RECOMMENDATIONS FOR

GOOD PRACTICES

1. Consider fundamental tradeoffs
2. Be attentive to blockchain properties
3. Ensure careful rollouts
4. Keep contracts simple
5. Stay up to date and track development

Panda Yaya

GOOD PRACTICES FOUND

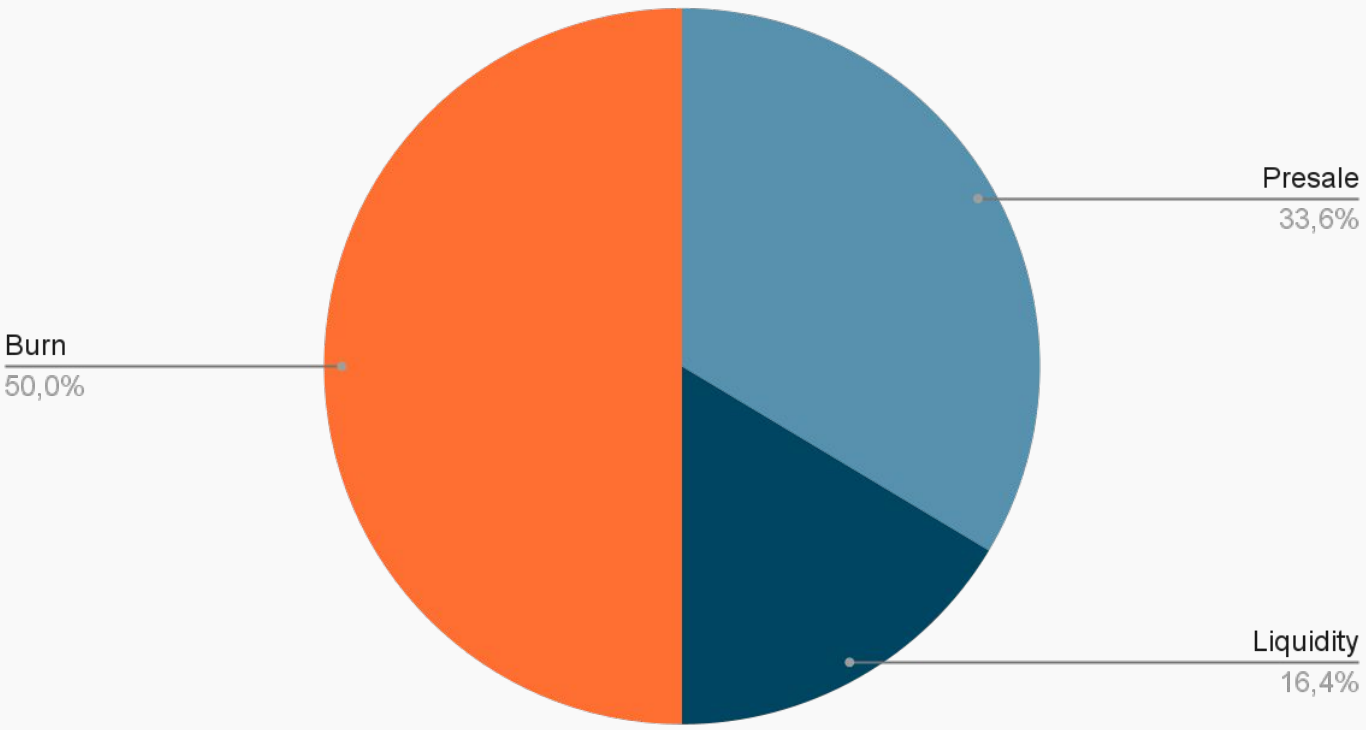
- ✔ The owner cannot mint new tokens after deployment
- ✔ The owner cannot set a transaction limit
- ✔ The smart contract utilizes "SafeMath" to prevent overflows

TOKENOMICS

The following tokenomics are based on the project's whitepaper and/or website:

- 33.6% - Presale
- 16.4% - Liquidity
- 50% - Burn

Tokens distribution



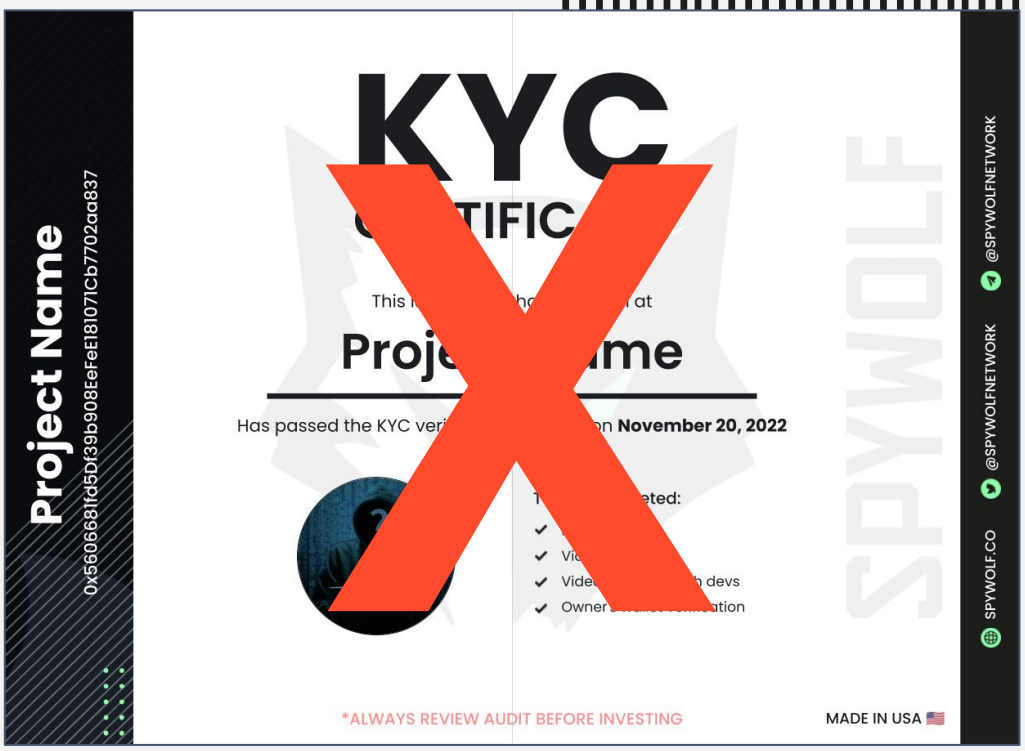
THE TEAM

⚠️ The team is annonymous

KYC INFORMATION

⚠️ No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.



WEBSITE

Website URL
https://pandayaya.finance/

Domain Registry
https://www.namecheap.com/

Domain Expiration
2024-05-15

Technical SEO Test
Passed

Security Test
Passed. SSL certificate present

Design
Single page design with appropriate color scheme and graphics.

Content
The information helps new investors understand what the product does right away. No grammar mistakes found.

Whitepaper
Not very explanatory.

Roadmap
Yes, goals set without time frames.

Mobile-friendly?
Yes

pandayaya.finance

SOCIAL MEDIA

& ONLINE PRESENCE

ANALYSIS

Project's social media pages are active

Twitter

@PandaYaYa_TK

- 1 126 followers
- 3 total posts

Discord

- Not available

Telegram

@PandaYaYaGroup

- 2 515 members
- Few active members
- Active mods

Medium

- Not available

SPYWOLF

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Contract Development

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Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.
While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.